

*The  
Connecticut  
Agricultural  
Experiment  
Station,  
New Haven*

Analysis of  
Fertilizer Products  
Sold in Connecticut  
2002

BY MARY JANE INCORVIA MATTINA

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From January 1, 2002 to December 31, 2002 the Department of Analytical Chemistry at The Connecticut Agricultural Experiment Station analyzed 213 samples of fertilizers available for sale in Connecticut. Samples included products offered for sale to commercial agricultural operations as well as products for household use. The analyses are intended to determine that the products are in accordance with the stated label guarantees. The samples were collected by John Schneider and Alton van Dyke of the Connecticut Department of Agriculture and were analyzed by Craig Musante and Mamie Pyles under the direction of Dr. David Stilwell.

Products from 42 manufacturers are included in the accompanying table. A total of 77 samples (36%) were determined to be deficient in one or more guaranteed parameters. Specifically, 47 were deficient in nitrogen (22.1%); 11 were deficient in phosphorus (5.2%); and 13 were deficient in potassium (6.1%). Twenty samples (9.4%) were deficient in one or more micronutrients. A parameter is considered to be unsatisfactory if the value is below the guaranteed value by more than the permissible percentage established by the Association of American Plant Food Control Officials. The results of the analyses are summarized in the table. All results are in percent values unless otherwise indicated. Deficiencies are indicated by a minus (-) sign next to the found percent values shown in the columns headed by %F or next to the micronutrient values. The label guarantee is specified in the columns headed by %G.

Table 1. Manufacturer and sample description and percentages guaranteed and found for nitrogen, P2O5 and K2O found in fertilizer samples during 2002.

| Manufacturer/<br>Sample description | Nitrogen |       | P205 | K20  |      |       |
|-------------------------------------|----------|-------|------|------|------|-------|
|                                     | %G       | %F    |      |      |      |       |
|                                     | %G       | %F    | %G   | %F   |      |       |
| AGWAY OF PLAINFIELD CROP CENTER     |          |       |      |      |      |       |
| ASP AG Products                     | 10       | 9.8   | 10   | 8.5- | 10   | 11.7  |
| Agway Bulk Blend                    | 31       | 32    | 10   | 11   | 10   | 11.5  |
| Agway Bulk Blend                    | 31       | 31.1  | 10   | 10.7 | 10   | 13.2  |
| Agway Bulk Blend                    | 22       | 22.8  | 8    | 8.9  | 23   | 26.4  |
| Agway Bulk Blend                    | 22       | 21.2  | 8    | 9.6  | 23   | 28.1  |
| Agway Bulk Blend                    | 28       | 26.5- | 4    | 13.1 | 19   | 12.4- |
| Agway Bulk Blend                    | 28       | 26.3- | 4    | 13.3 | 19   | 13.3- |
| Agway Bulk Blend                    | 16       | 13.3- | 0    |      | 40   | 45.8  |
| Agway Bulk Blend                    | 16       | 13.7- | 0    |      | 40   | 45.8  |
| Agway Bulk Blend                    | 24       | 27.6  | 12   | 4.9- | 18   | 21    |
| Agway Bulk Blend                    | 24       | 26.2  | 12   | 5.5- | 18   | 23.4  |
| Agway Bulk Blend                    | 18       | 16.4- | 18   | 20.3 | 18   | 23.7  |
| Agway Bulk Blend                    | 18       | 16.2- | 18   | 22.1 | 18   | 22.5  |
| Agway Bulk Blend                    | 7        | 7.4   | 27   | 30.7 | 11   | 11.2  |
| Agway Bulk Blend                    | 7        | 7.5   | 27   | 32.3 | 11   | 10.7  |
| Agway Bulk Blend, mini bulk         | 24       | 24.3  | 12   | 15.7 | 18   | 17.9  |
| Agway Bulk Blend                    | 26       | 28.5  | 0    |      | 26   | 24.7  |
| Agway Bulk Blend                    | 26       | 28.5  | 0    |      | 26   | 24.8  |
| Agway Bulk Blend                    | 7        | 9.2   | 31   | 37.1 | 23   | 22.5  |
| Agway Bulk Blend                    | 7        | 8.6   | 31   | 36.7 | 23   | 23.1  |
| ACP Ag Products                     | 10       | 8.8-  | 10   | 9.9  | 10   | 10.3  |
| Agway Bulk Blend                    | 31       | 33.4  | 10   | 11.2 | 10   | 9.9   |
| Agway Bulk Blend                    | 31       | 31.5  | 10   | 11.5 | 10   | 12.1  |
| Agway Bulk Bag                      | 24       | 23.4  | 12   | 12   | 18   | 26.4  |
| Agway Bulk Bag                      | 13       | 14.5  | 13   | 19.8 | 13   | 7.4-  |
| Agway Bulk Bag                      | 19       | 23.3  | 19   | 19.1 | 19   | 18.6  |
| Agway Bulk Bag                      | 7        | 7.2   | 30   | 31.9 | 22   | 24.3  |
| Agway Bulk Bag                      | 22       | 21.4  | 10   | 10.9 | 10   | 11.6  |
| Agway Bulk Blend                    | 32       | 33.9  | 8    | 9.7  | 10   | 10.7  |
| Agway Bulk Blend                    | 32       | 33.5  | 8    | 8.4  | 10   | 12.2  |
| Agway Bulk Blend                    | 7        | 8     | 27   | 29.6 | 11   | 12.5  |
| Agway Bulk Blend                    | 31       | 28.3- | 0    |      | 15   | 20.5  |
| Agway Bulk Blend                    | 28       | 24.4- | 2    | 5.2  | 20   | 25.2  |
| Agway Bulk Blend                    | 29       | 28.7  | 11   | 13.5 | 11   | 18.4  |
| Agway Bulk Blend                    | 18.5     | 15.9- | 0    |      | 37.1 | 48.8  |
| Agway Bulk Blend, mini bulk         | 10       | 5.6-  | 10   | 7.3- | 10   | 11.4  |
| Agway Bulk Blend                    | 32       | 32.2  | 6    | 8.5  | 12   | 13.7  |
| AGWAY, INC.                         |          |       |      |      |      |       |
| Agway Blend-Rite                    | 19       | 22.2  | 19   | 18.2 | 19   | 18.2  |
| Agway Bulk Blend                    | 24       | 26.8  | 12   | 14   | 18   | 20.6  |
| Agway Bulk Blend                    | 24       | 23-   | 12   | 12.7 | 18   | 24.3  |
| Agway Blend-Rite                    | 28       | 28.5  | 7    | 6.5  | 14   | 15.6  |
| Agway Blend-Rite                    | 10       | 8.6-  | 20   | 26.4 | 10   | 11.7  |
| Agway Early-Edge                    | 13       | 13    | 13   | 15.9 | 13   | 16    |
| Agway Blend-Rite                    | 28       | 28.3  | 7    | 7.8  | 14   | 18.3  |
| Agway Blend-Rite                    | 5        | 6.4   | 10   | 13.1 | 10   | 15.5  |
| Agway Blend-Rite                    | 15       | 26.5  | 8    | 12.3 | 12   | 8.9-  |
| Agway Blend-Rite                    | 15       | 14.6  | 15   | 15.3 | 15   | 14.7  |

Table 1 (continued). Manufacturer and sample description and percentages guaranteed and found for nitrogen, P2O5 and K2O found in fertilizer samples during 2002.

| Manufacturer/<br>Sample description        | Nitrogen |       | P2O5 | K2O   |
|--|----------|-------|------|-------|
|  | %G       | %F    | %G   | %F    |
| Agway C/S                                  | 10       | 10.1  | 20   | 11.5  |
| Agway Blend-Rite                           | 15       | 11.8- | 8    | 14.6  |
| Agway Blend-Rite                           | 24       | 24.4  | 12   | 19.4  |
| Agway Bulk Blend                           | 23       | 23.1  | 7    | 27.4  |
| Agway Bulk Blend                           | 23       | 20.5- | 7    | 29.2  |
| Agway Bulk Blend                           | 22       | 22.3  | 11   | 26    |
| Agway Bulk Blend                           | 22       | 22.7  | 11   | 24.6  |
| Agway Bulk Blend                           | 28       | 25.8- | 7    | 16.3  |
| Agway Bulk Blend                           | 28       | 28.7  | 7    | 12.6- |
| Agway Bulk Blend                           | 23       | 23.3  | 12   | 21.2  |
| Agway Bulk Blend                           | 23       | 23.6  | 12   | 19.8  |
| Agway Bulk Blend                           | 15       | 10.4- | 7    | 13.8  |
| Agway Bulk Blend                           | 15       | 11.6- | 7    | 13.4  |
| Agway Bulk Blend                           | 10       | 9.6   | 10   | 9.7   |
| Agway Bulk Blend                           | 10       | 9.9   | 10   | 11.1  |
| Agway Bulk Blend                           | 22.8     | 23.4  | 9.1  | 28.9  |
| Agway Bulk Blend                           | 22.8     | 24.1  | 9.1  | 21.2- |
| Agway Bulk Blend                           | 31       | 31    | 10   | 12.9  |
| Agway Bulk Blend                           | 31       | 28.4- | 10   | 12.5  |
| Agway Organic Lawn Food                    | 8        | 8.1   | 2    | 4.1   |
| Agway Greenlawn Lawn Starter               | 13       | 12.6  | 25   | 12.5  |
| Agway Stage 4 Winterizer Fert.             | 25       | 25.7  | 3    | 13.1  |
| Agway Greenlawn Lawn Fert.                 | 32       | 32.2  | 3    | 5.1   |
| Agway Blend-Rite                           | 5        | 6.5   | 10   | 6.1   |
| Agway Organic Plant Food                   | 4        | 5.7   | 5    | 3.8   |
| Agway Super Garden Plant Food              | 12       | 12.3  | 24   | 12.1  |
| Agway Blend-Rite                           | 10       | 11.8  | 20   | 19.7  |
| Agway Blend-Rite                           | 10       | 15.3  | 6    | 5.4   |
| Agway Blend-Rite                           | 5        | 5.2   | 10   | 5.7   |
| Agway Early Edge                           | 10       | 8.4-  | 20   | 27.2  |
| Agway Blend-Rite                           | 25       | 30.4  | 0    | 26.8  |
| ALASKA KELP CO.                            |          |       |      |       |
| Garden Grog                                | 0.14     | 0.13  | 0.5  | 1.5   |
| BIOGANIC SAFETY BRANDS, INC.               |          |       |      |       |
| Biorganic All-Purp. Plant Food             | 5        | 5.6   | 5    | 6.3   |
| St. Gabriel Labs. Perennial Fert.          | 12       | 13.4  | 8    | 7.8   |
| BONIDE PRODUCTS, INC.                      |          |       |      |       |
| Bonide Fish Emulsion                       | 2        | 2.1   | 4    | 0.36  |
| BOURDEAU BROS. INC.                        |          |       |      |       |
| Bourdeau Bros. Fertilizer                  | 10       | 11.3  | 10   | 10.2  |
| COAST OF MAINE ORGANIC FERTILIZER PRODUCTS |          |       |      |       |
| Coast of Maine Fermented Salmon Organic    | 1.4      | 1.4   | 0.2  | 0.24  |

Table 1 (continued). Manufacturer and sample description and percentages guaranteed and found for nitrogen, P2O5 and K2O found in fertilizer samples during 2002.

| Manufacturer/<br>Sample description  | Nitrogen |       | P2O5 |       | K2O |       |
|--------------------------------------|----------|-------|------|-------|-----|-------|
|                                      | %G       | %F    | %G   | %F    | %G  | %F    |
| CROP PRODUCTION SERVICES (NY)        |          |       |      |       |     |       |
| CPS Fertilizer                       | 18       | 19.6  | 2    | 3     | 25  | 25.4  |
| CPS Fertilizer                       | 13       | 13.8  | 13   | 10.9- | 13  | 14.7  |
| CPS Fertilizer                       | 26       | 23.3- | 0    |       | 26  | 33.1  |
| CPS Fertilizer                       | 20       | 18-   | 10   | 9.7   | 20  | 10.7- |
| CPS Moriate Potash                   | 0        |       | 0    |       | 61  | 70.9  |
| CPS Fertilizer                       | 10       | 5.1-  | 10   | 7.4-  | 10  | 11.6  |
| CPS Fertilizer                       | 15       | 10.5- | 8    | 7.8   | 12  | 11.7  |
| CPS Fertilizer                       | 2.5      | 3.1   | 0    |       | 28  | 30    |
| CPS Fertilizer                       | 12       | 10-   | 12   | 11.9  | 28  | 31.5  |
| CPS Fertilizer                       | 6        | 4.2-  | 12   | 8.2-  | 12  | 10.4- |
| CROP PRODUCTION SERVICES (CT)        |          |       |      |       |     |       |
| CPS Fertilizer                       | 15       | 14.7  | 30   | 35.3  | 15  | 20.5  |
| CPS Fertilizer                       | 10       | 8.7-  | 8    | 7.5   | 10  | 13.1  |
| Village Green Fertilizer             | 18       | 15.8- | 11   | 10.4  | 17  | 21.7  |
| CPS Fertilizer                       | 10       | 7.2-  | 20   | 15.8- | 20  | 29.7  |
| Village Green Fertilizer             | 25       | 18.8- | 5    | 5.3   | 5   | 6.7   |
| CPS Fertilizer                       | 15       | 9.8-  | 15   | 14.6  | 15  | 19.4  |
| CRYSTAL CO.                          |          |       |      |       |     |       |
| Throw & Grow Time-Release Fertilizer | 20       | 24.1  | 4    | 6.9   | 10  | 9.9   |
| DECRAN AG. SUPPLIES                  |          |       |      |       |     |       |
| DeCran Deluxe                        | 10       | 7.3-  | 6    | 5.5   | 4   | 7.2   |
| DeCran Fertilizer                    | 5        | 4.9   | 10   | 11.4  | 10  | 11.7  |
| DeCran Fertilizer                    | 5        | 4.3-  | 10   | 11.4  | 5   | 12.6  |
| DOMESTIC FERTILIZER, INC.            |          |       |      |       |     |       |
| Tree Food Stakes                     | 15       | 15.7  | 7    | 7.5   | 6   | 5.6   |
| EASY GARDENER, INC.                  |          |       |      |       |     |       |
| Jobe's Fert. Spikes for Tomatoes     | 8        | 12.2  | 24   | 25.6  | 8   | 10.1  |
| FRANK'S NURSERY & CRAFTS, INC.       |          |       |      |       |     |       |
| Frank's Lawn Food                    | 32       | 31.7  | 4    | 5.6   | 8   | 9.8   |
| Frank's Garden Food                  | 5        | 5.6   | 10   | 13    | 5   | 6.2   |
| Frank's Lawn & Garden Food           | 12       | 12.8  | 12   | 16.6  | 12  | 12.1  |
| Frank's Lawn Food                    | 32       | 29.2- | 4    | 4.8   | 8   | 11.8  |
| Frank's Garden Food                  | 5        | 4.5   | 10   | 10.4  | 5   | 5.4   |
| Frank's Lawn & Garden Food           | 12       | 11.9  | 12   | 16.9  | 12  | 12.7  |
| Frank's Fall Lawn Food               | 26       | 21.6- | 4    | 3.9   | 14  | 13.7  |
| Frank's Seed Starter                 | 18       | 17.6  | 24   | 26    | 6   | 8.2   |
| FREE-FLOW FERTILIZER                 |          |       |      |       |     |       |
| Sam's Choice Lawn Food               | 29       | 28.2  | 3    | 3.7   | 4   | 4.1   |
| Green Ac. Lawn, Garden. & Shrub Food | 12       | 10.4- | 12   | 13.3  | 12  | 12.3  |



Table 1 (continued). Manufacturer and sample description and percentages guaranteed and found for nitrogen, P2O5 and K2O found in fertilizer samples during 2002.

| Manufacturer/<br>Sample description                      | Nitrogen |       | P2O5 |       | K2O |      |
|--|----------|-------|------|-------|-----|------|
|  | %G       | %F    | %G   | %F    | %G  | %F   |
| American. Green All-Purpose Plant Food                   | 10       | 9.8   | 10   | 11.3  | 10  | 10.4 |
| GRO-GREEN PRODUCTS                                       |          |       |      |       |     |      |
| Gro Green Great Garden Fert.                             | 5        | 5.9   | 10   | 11.3  | 5   | 4.9  |
| HYDRO/KIRBY AGRI SERV                                    |          |       |      |       |     |      |
| Arrow Fertilizer   | 10       | 7.3-  | 10   | 12.7  | 10  | 11.3 |
| IRONITE PRODUCTS CO.                                     |          |       |      |       |     |      |
| Ironite Liq. Lawn & Garden Spr.                          | 6        | 8     | 2    | 2.3   | 1   | 2.6  |
| Ironite  | 1        | 2.8   | 0    |       | 0   |      |
| Ironite  | 1        | 2.3   | 0    |       | 0   |      |
| Ironite Liq. Lawn & Garden Spr.                          | 6        | 7.2   | 2    | 2.3   | 1   | 2.6  |
| Ironite  | 1        | 1.6   |      |       |     |      |
| JONATHAN GREEN, INC.                                     |          |       |      |       |     |      |
| Jonathan Green Green-Up Lawn Fertilizer                  | 30       | 30.1  | 5    | 6.9   | 5   | 7.1  |
| Jonathan Green New Seeding Lawn Fertilizer               | 14       | 13.6  | 28   | 28.5  | 15  | 18   |
| Jonathan Green Winter Survival Fall Fertilizer           | 10       | 10.7  | 18   | 20.3  | 20  | 21.1 |
| Jonathan Green Organic Country Lawn & Nursery Fertilizer | 15       | 15.8  | 4    | 6.1   | 7   | 8.1  |
| Jonathan Green Fertilizer                                | 10       | 11.3  | 10   | 16.6  | 10  | 10.3 |
| Jonathan Green Holly Care                                | 4        | 7.9   | 6    | 15.5  | 4   | 4.3  |
| Jonathan Green Rose Care                                 | 5        | 6     | 8    | 17.7  | 3   | 5.9  |
| LEBANON CHEMICAL CORP.                                   |          |       |      |       |     |      |
| Greenview Green Power Lawn Fertilizer                    | 30       | 30.4  | 4    | 5.9   | 4   | 6    |
| Green Gold Lawn Food                                     | 30       | 29.7  | 3    | 3.2   | 5   | 6.6  |
| Green Gold Re-Nu Fall Fert.                              | 10       | 10.5  | 18   | 22.7  | 10  | 11.9 |
| Emerge Planting Mulch Plus St. Fertilizer                | 1        | 1.6   | 3    | 4.1   | 1   | 1.2  |
| Greenview Green Start                                    | 10       | 13.2  | 18   | 16.1- | 10  | 11.7 |
| Greenview Green Power                                    | 30       | 27.7- | 4    | 5.3   | 4   | 5.8  |
| Greenview Winter Green                                   | 10       | 11.3  | 16   | 16.9  | 20  | 21.3 |
| Greenview All-Purpose                                    | 10       | 11.6  | 10   | 9.6   | 10  | 12.7 |
| LESCO INC.   |          |       |      |       |     |      |
| Lesco Prof. Starter Fertilizer                           | 18       | 18.9  | 24   | 26.4  | 12  | 13.4 |
| Lesco Prof. Turf Fertilizer                              | 24       | 27.5  | 5    | 6.4   | 11  | 11.2 |
| Lesco Prof. Turf Fertilizer                              | 24       | 33.1  | 5    | 6.7   | 11  | 8.4- |
| Lesco Prof. Turf Fertilizer                              | 25       | 26.1  | 5    | 5.4   | 10  | 12.7 |
| Lesco Prof. Turf Fertilizer                              | 19       | 19.3  | 19   | 23.1  | 19  | 20.1 |
| Lesco Prof. Starter Fertilizer                           | 18       | 17.9  | 24   | 25.5  | 12  | 16   |
| Lesco Starter Fertilizer                                 | 18       | 18.7  | 24   | 27.9  | 12  | 17.2 |
| Lesco Turf Fertilizer                                    | 18       | 17.9  | 0    |       | 18  | 23   |

Table 1 (continued). Manufacturer and sample description and percentages guaranteed and found for nitrogen, P2O5 and K2O found in fertilizer samples during 2002.

| Manufacturer/<br>Sample description                    | Nitrogen |       | P2O5 |      | K2O |       |
|--|----------|-------|------|------|-----|-------|
|  | %G       | %F    | %G   | %F   | %G  | %F    |
| Lesco Fertilizer                                       | 24       | 30.3  | 5    | 8    | 11  | 10.6  |
| Lesco Fertilizer                                       | 21       | 29.1  | 3    | 3.6  | 21  | 13.9- |
| Lesco Fertilizer                                       | 18       | 23.6  | 2    | 4.3  | 18  | 21.1  |
| Lesco Fertilizer                                       | 19       | 25.8  | 0    |      | 19  | 21.2  |
| Lesco Fertilizer                                       | 20       | 28.4  | 10   | 11.5 | 20  | 12-   |
| Lesco Fertilizer                                       | 25       | 28.4  | 5    | 7.3  | 10  | 11.3  |
| Lesco Fertilizer                                       | 14       | 14.2  | 14   | 16   | 14  | 16.7  |
| MARYLAND ENVIRONMENTAL SERVICE                         |          |       |      |      |     |       |
| Fertile Gro Organic Fertilizer                         | 4        | 4     | 3    | 2.8  | 3   | 3.7   |
| MIRACLE-GRO LAWN PRODUCTS, INC.                        |          |       |      |      |     |       |
| Miracle-Gro Plant Food Spikes                          | 6        | 7     | 12   | 12.1 | 6   | 11.6  |
| Miracle-Gro African Violet Plant Food                  | 7        | 7.4   | 7    | 8.8  | 7   | 7.1   |
| NORTH COUNTRY ORGANICS                                 |          |       |      |      |     |       |
| No. Country Organics Pro-Start                         | 2        | 4.2   | 3    | 6.2  | 3   | 4.8   |
| No. Country Organics Pro Gro                           | 5        | 5.5   | 3    | 3.1  | 4   | 5.4   |
| Nature's Turf Fertilizer                               | 8        | 7-    | 1    | 6.1  | 9   | 7.7-  |
| NUTRICO, INC.  |          |       |      |      |     |       |
| Nutrico Professional Fert. & Iron                      | 20       | 14.4- | 5    | 8.9  | 7   | 7     |
| Nutrico All-Purpose Fertilizer                         | 10       | 10.6  | 10   | 15.4 | 10  | 13.3  |
| Nutrico Fertilizer                                     | 5        | 5.2   | 10   | 12.8 | 5   | 4.8   |
| Nutrico Prof. Starter Fertilizer                       | 14       | 6.3-  | 22   | 24.5 | 6   | 5.8   |
| Nutrico Prof. Fert. Plus Iron                          | 20       | 15.4- | 5    | 6.9  | 7   | 6.5   |
| Nutrico Fertilizer                                     | 18       | 19.8  | 5    | 5.7  | 9   | 9.6   |
| Mahoney's Garden Center                                | 10       | 10    | 6    | 7.6  | 4   | 4.7   |
| Mahoney's Garden Center Fall Lawn Fertilizer with iron | 12       | 6.3-  | 20   | 20.2 | 12  | 12    |
| Mahoney's Lawn Fertilizer                              | 25       | 27.4  | 5    | 5.5  | 5   | 4.9   |
| OCEAN CREST SEAFOOD                                    |          |       |      |      |     |       |
| Neptune's Harvest Fish & Seaweed Fertilizer            | 2        | 1.5   | 3    | 3.4  | 1   | 1.5   |
| PLANT HEALTH CARE                                      |          |       |      |      |     |       |
| Healthy Start Natural Fertilizer                       | 3        | 4.1   | 4    | 5.1  | 3   | 3.5   |
| PURE BARNYARD CO.                                      |          |       |      |      |     |       |
| Cockadoodle Doo Fertilizer                             | 5        | 5.2   | 3    | 5.2  | 2   | 2.7   |
| PURSELL INDUSTRIES INC.                                |          |       |      |      |     |       |
| Ace Green Turf Lawn Fertilizer                         | 30       | 27.1- | 3    | 7.6  | 3   | 2.9   |
| Ace Super Green Turf Winter.                           | 24       | 25    | 3    | 4.6  | 12  | 14.3  |
| Mum Booster  | 17       | 17.4  | 5    | 9.2  | 11  | 12.1  |
| Vigoro Starter Fertilizer                              | 20       | 22.8  | 27   | 28.1 | 5   | 6.7   |
| Vigoro Ultra Turf Fertilizer                           | 29       | 31    | 3    | 3.1  | 4   | 3.9   |
| Vigoro Ultra Turf Starter Fert.                        | 20       | 16.6- | 27   | 29.9 | 5   | 9.9   |

Table 1 (continued). Manufacturer and sample description and percentages guaranteed and found for nitrogen, P2O5 and K2O found in fertilizer samples during 2002.

| Manufacturer/<br>Sample description              | Nitrogen |       | P2O5 | K2O  |
|--|----------|-------|------|------|
|  | %G       | %F    | %G   | %F   |
| Parker's Super Soilife Lawn & Garden. Fertilizer | 12       | 18.1  | 12   | 14   |
| Pursell's Sta-Green Seed & Sod Starter           | 18       | 20.4  | 24   | 10.4 |
| Pursell's Sta-Green Lawn Fert.                   | 31       | 32.4  | 2    | 3-   |
| Pursell's Sta-Green Lawn Fert.                   | 29       | 31.3  | 2    | 4.8  |
| SCHULTZ CO.                                      |          |       |      |      |
| Schultz Bloom Plus                               | 10       | 9.8   | 60   | 10   |
| Schultz Multi Cote All-Purpose Indoor Plant Food | 18       | 18.6  | 6    | 12.5 |
| Schultz Cactus Plus Liquid Plant Food            | 2        | 2.7   | 7    | 8.7  |
| Schultz Expert Gardener Tomato Food              | 9        | 9.8   | 10   | 16.4 |
| Schultz Expert Gardener                          | 16       | 19.4  | 12   | 11.9 |
| SCOTTS/SIERRA HORTICULTURAL PRODUCTS             |          |       |      |      |
| Osmocote Vegetable. & Bedding Plant Food         | 14       | 14.3  | 14   | 14.9 |
| Scotts Turf Builder w/ Moss Control              | 16       | 17.5  | 2    | 3.8  |
| Scotts Turf Builder                              | 29       | 29    | 3    | 5.5  |
| Scotts Step 4 Lawn Fertilizer                    | 31       | 32.6  | 3    | 11.8 |
| Scotts Super Turf Builder                        | 30       | 30.1  | 3    | 3.8  |
| Scotts Vegetable Food                            | 20       | 21.8  | 27   | 5.2  |
| Scotts All-Purpose Plant Food                    | 7        | 7.5   | 7    | 8.2  |
| Scotts Fertilizer                                | 30       | 30.5  | 3    | 6.8  |
| SPECTRUM GROUP, UNITED INDUSTRIES CORP.          |          |       |      |      |
| Peter's Mum Food                                 | 26       | 26.4  | 12   | 19.3 |
| SUSTANE/NATURAL FERTILIZER OF AMERICA            |          |       |      |      |
| Sustane Slow Release Nitr. Fert.                 | 18       | 16.3- | 1    | 10.1 |
| Sustane Fertilizer                               | 4        | 4.7   | 6    | 3.7  |
| THE ESPOMA CO.                                   |          |       |      |      |
| Espoma Garden-Tone                               | 4        | 6.4   | 6    | 7.7  |
| Espoma Plant-Tone                                | 5        | 5.3   | 3    | 3.2  |
| Espoma Holly-Tone                                | 4        | 5.1   | 6    | 6    |
| Espoma Organic Lawn Food                         | 18       | 14.8- | 8    | 16.3 |
| TRU-SERV CORP.                                   |          |       |      |      |
| Green Thumb Prem. Lawn Fert.                     | 29       | 29.6  | 3    | 4.4  |
| WEATHERLY CONSUMER PRODUCTS                      |          |       |      |      |
| Jobe's Fertilizer Spikes for Aquatic Plants      | 8        | 11.8  | 24   | 8.9  |



Table 1 (continued). Manufacturer and sample description and percentages guaranteed and found for nitrogen, P2O5 and K2O found in fertilizer samples during 2002.

| Manufacturer/<br>Sample description | Nitrogen |      | P2O5 |     | K2O |     |
|-------------------------------------|----------|------|------|-----|-----|-----|
|                                     | %G       | %F   | %G   | %F  | %G  | %F  |
| WOODSTREAM                          |          |      |      |     |     |     |
| Ringer Lawn Restore                 | 10       | 10.7 | 2    | 2.6 | 6   | 6.9 |
| MISCELLANEOUS                       |          |      |      |     |     |     |
| Bone meal                           | 4        | 6.6  | 12   | 18  | 0   |     |

Table 2. Manufacturer and sample description for micronutrients in fertilizer samples tested during 2002.

|   |  |
|---|--|
| AGWAY OF PLAINFIELD CROP CENTER               |  |
| Agway Bulk Blend                              | Boron 0.31-  |
| Agway Bulk Blend                              | Boron 0.5  |
| Agway Bulk Blend                              | Magnesium 2.5; Sulfur 2.7; Zinc 0.5  |
| Agway Bulk Blend                              | Magnesium 2.5; Sulfur 2.7; Zinc 0.4  |
| Agway Bulk Blend                              | Magnesium 2.2; Sulfur 2.7; Zinc 0.4  |
| AGWAY, INC.                                   |  |
| Agway Organic Lawn Food                       | Calcium 8.4  |
| Agway Greenlawn Lawn Starter                  | Sulfur 8.2   |
| Agway Stage 4 Winterizer Fertilizer           | Sulfur 4.9   |
| Agway Greenlawn Lawn Fertilizer               | Sulfur 3.4   |
| Agway Super Garden Plant Food                 | Iron 1.2; Copper 0.07; Manganese 0.08; Zinc 0.12   |
| BIOGANIC SAFETY BRANDS, INC.                  |  |
| Biorganic All-Purpose Plant Food              | Magnesium 2.8; Calcium 9.7; Sulfur 3.2; Iron 1.1   |
| St. Gabriel Laboratories Perennial Fertilizer | Magnesium 0.7; Calcium 1.4; Sulfur 1.4; Iron 2.4; Manganese 0.46; Zinc 0.12                                |
| CRYSTAL CO.                                   |  |
| Throw & Grow Time-Release Fertilizer          | Sulfur 3.8-  |
| FRANK'S NURSERY & CRAFTS, INC.                |  |
| Frank's Lawn Food                             | Sulfur 9.5; Iron 1.1   |
| FREE-FLOW FERTILIZER                          |  |
| Sam's Choice Lawn Food                        | Sulfur 4.4; Iron 1.7   |
| GLOBAL STONE CORPORATION, DIV. OGLEBAY NORTON |  |
| Klean Lime Pelletized Dolomitic Limestone     | Magnesium 9.9; Calcium 19  |
| IRONITE PRODUCTS CO.                          |  |
| Ironite Liquid Lawn & Garden Spray            | Sulfur 1.1; Iron 0.6; Manganese 0.07; Zinc 0.06; Cobalt 0.006;   |
| Ironite                                       | Magnesium 1.9; Calcium 3.3; Sulfur 13; Iron 10; Manganese 0.07; Zinc 0.9; Cobalt 0.001; Molybdenum 0.00042 |

Table 2 (continued). Manufacturer and sample description for micronutrients in fertilizer samples tested during 2002.

|  |   |
|--|---|
| Ironite  | Magnesium 1.8; Calcium 3.3; Sulfur 13; Iron 10;<br>Manganese 0.06; Zinc 0.9; Cobalt 0.001;<br>Molybdenum 0.0004                     |
| Ironite Liquid Lawn & Garden Spray             | Sulfur 1.1; Iron 0.6; Manganese 0.07; Zinc 0.06;<br>Cobalt 0.006;   |
| Ironite  | Magnesium 2.1; Calcium 2.9; Sulfur 13.8;<br>Iron 12.9; Manganese 0.07; Zinc 1.1; Molybdenum 0.0003                                  |
| JONATHAN GREEN, INC.                           |   |
| Jonathan Green Green-Up Lawn Fertilizer        | Sulfur 1.2; Iron 0.6  |
| Jonathan Green New Seeding Lawn Fertilizer     | Iron 1.3  |
| Jonathan Green Winter Survival Fall Fertilizer | Sulfur 3.4; Iron 0.6-   |
| Jonathan Green Org. Cntry Lawn & Nurs. Fert.   | Calcium 2.8; Sulfur 5.4; Iron 0.4; Manganese 0.1  |
| Jonathan Green Holly Care                      | Magnesium 0.5; Boron 0.0095-; Calcium 7.9; Sulfur 9;<br>Iron 1.1; Copper 0.0035-; Manganese 0.04; Zinc 0.016-;<br>Molybdenum 0.0004 |
| Jonathan Green Rose Care                       | Magnesium 0.7; Boron 0.013; Calcium 14.1; Sulfur 6.7;<br>Iron 0.4   |
| LESCO INC.                                     |   |
| Lesco Professional Starter Fertilizer          | Sulfur 6.3  |
| Lesco Professional Turf Fertilizer             | Sulfur 2.8; Iron 1.95-; Manganese 0.45-   |
| Lesco Professional Turf Fertilizer             | Sulfur 3.4; Iron 1.25-; Manganese 0.19-   |
| Lesco Professional Turf Fertilizer             | Sulfur 3.5; Iron 0.9-   |
| Lesco Professional Starter Fertilizer          | Sulfur 6.5  |
| LIME-RITE                                      |   |
| Lime-Rite                                      | Magnesium 13%; Calcium 22%; CaCO <sub>3</sub> 55%; MgCO <sub>3</sub> 45%  |
| Pro-Lime Pelletized Dolomite Lime              | Magnesium 12.5%; Calcium 21%; CaO 29%; MgO 21%  |
| MARYLAND ENVIRONMENTAL SERVICE                 |   |
| Fertile Gro Organic Fertilizer                 | Magnesium 0.6; Calcium 2.8; Sulfur 0.8; Iron 0.11;<br>Copper 0.05-; Manganese 0.05-; Zinc 0.06                                      |
| MIRACLE-GRO LAWN PRODUCTS, INC.                |   |
| Miracle-Gro Plant Food Spikes                  | Magnesium 0.85; Boron 0.02; Iron 0.3; Copper 0.05;<br>Manganese 0.05; Zinc 0.05   |
| Miracle-Gro African Violet Plant Food          | Boron 0.017; Iron 0.2; Copper 0.06; Manganese 0.08;<br>Zinc 0.07  |
| NEW ENGLAND SILICA, INC.                       |   |
| NESCO Lawn & Garden Lime                       | CaO 36%; MgO 22%  |
| NUTRICO, INC.                                  |   |
| Mahoney's Garden Cntr Fall Lawn Fert.w/iron    | Iron 1.2  |
| PURE BARNYARD CO.                              |   |
| Cockadoodle Doo Fertilizer                     | Magnesium 0.5; Calcium 7.7  |
| PURSELL INDUSTRIES INC.                        |   |
| Ace Green Turf Lawn Fertilizer                 | Boron 0.04; Sulfur 1.6; Iron 2; Copper 0.1; Manganese 0.1;<br>Zinc 0.2; Molybdenum 0.00036  |

Table 2 (continued). Manufacturer and sample description for micronutrients in fertilizer samples tested during 2002.

|  |  |
|--|--|
| Ace Super Green Turf Winterizer                | Sulfur 5.2-  |
| Vigoro Ultra Turf Fertilizer                   | Iron 0.14-   |
| Parker's Super Soilife Lawn & Garden Fert.     | Boron 0.04; Iron 0.5; Copper 0.09; Zinc 0.1;<br>Molybdenum 0.0005  |
| Pursell's Sta-Green Seed & Sod Starter         | Boron 0.04; Iron 0.9; Copper 0.05; Manganese 0.07;<br>Zinc 0.1; Molybdenum 0.0005  |
| Pursell's Sta-Green Lawn Fertilizer            | Iron 1.1-  |
| Pursell's Sta-Green Lawn Fertilizer            | Iron 0.7-  |
| SCHULTZ CO.                                    |  |
| Schultz Multi Cote All-Purp. Indoor Plant Food | Magnesium 2.9; Boron 0.014; Iron 0.16; Copper 0.04;  |
| Manganese 0.037-; Molybdenum 0.008             |  |
| Schultz Cactus Plus Liquid Plant Food          | Iron 0.12; Manganese 0.05; Zinc 0.07   |
| Schultz Expert Gardener                        | Boron 0.014; Iron 0.36-; Copper 0.0006-;<br>Manganese 0.013-; Zinc 0.0089-; Molybdenum 0.00036   |
| SCOTTS/SIERRA HORTICULTURAL PRODUCTS           |  |
| Scotts Turf Builder with Moss Control          | Sulfur 14.7; Iron 6.1  |
| Scotts Turf Builder                            | Sulfur 7.6; Iron 1; Manganese 0.5  |
| Scotts Step 4 Lawn Fertilizer                  | Iron 1.2   |
| Scotts Super Turf Builder                      | Sulfur 6.2; Iron 1.7; Manganese 1  |
| Scotts All-Purpose Plant Food                  | Iron 0.14; Copper 0.08; Manganese 0.1; Zinc 0.08   |
| SOUTHDOWN, INC.                                |  |
| Yard Right Pulverized Limestone                | CaO 31%; CaCO <sub>3</sub> 55%; MgO 22%; MgCO <sub>3</sub> 46%   |
| Yard Right Pelletized Limestone                | Magnesium 0.55-; Calcium 33%   |
| SPECTRUM GROUP, UNITED INDUSTRIES CORP.        |  |
| Peter's Mum Food                               | Magnesium 0.4; Boron 0.02; Iron 0.1; Copper 0.04;<br>Manganese 0.04; Zinc 0.044; Molybdenum 0.0004   |
| STOLLER ENTERPRISES                            |  |
| Micromate Calcium Fortified Mix                | Magnesium 4-; Boron 1; Calcium 7-; Sulfur 19; Iron 3;<br>Copper 0.4; Manganese 3; Zinc 5   |
| SUSTANE/NATURAL FERTILIZER OF AMERICA          |  |
| Sustane Slow Release Nitrogen Fertilizer       | Calcium 2; Sulfur 7.2; Iron 1.2  |
| Sustane Fertilizer                             | Calcium 4.5  |
| THE ESPOMA CO.                                 |  |
| Espoma Garden-Tone                             | Magnesium 0.8; Boron 0.03; Sulfur 9.3; Iron 1;<br>Manganese 0.1; Sodium 0.3; Zinc 0.2; Cobalt 0.0007;<br>Molybdenum 0.0006                                 |
| Espoma Plant-Tone                              | Magnesium 1; Boron 0.0098-; Calcium 5.9; Sulfur 2.8;<br>Iron 0.4-; Copper 0.06; Manganese 0.05; Sodium 0.7;<br>Zinc 0.07; Cobalt 0.0003; Molybdenum 0.0005 |
| Espoma Holly-Tone                              | Magnesium 1; Boron 0.012-; Calcium 3.3; Sulfur 6.4;<br>Iron 0.5-; Copper 0.05; Manganese 0.05; Sodium 0.5;<br>Zinc 0.09; Cobalt 0.0003; Molybdenum 0.0005  |
| Espoma Organic Lawn Food                       | Iron 2.3   |

Table 2 (continued). Manufacturer and sample description for micronutrients in fertilizer samples tested during 2002.

|                                     |                       |
|-------------------------------------|-----------------------|
| TRU-SERV CORP.                      |                       |
| Green Thumb Premium Lawn Fertilizer | Sulfur 3.8; Iron 0.7- |

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